

27921 S/123/61/000/017/012/02^b
A004/A101

11730

AUTHOR: Shif, I. M.

TITLE: The effect of the process conditions of burnishing with two rolls on the surface quality of cylindrical parts

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 17, 1961, 90, abstract 17B615 ("Uch. zap. Permsk. un-t", 1960, v. 17, no. 3, 61-69)

TEXT: An account is given of the results of investigating the effect of the burnishing process conditions and the geometry of the rolls on the state of the machined surface. It was found that a peripheral burnishing speed in the range of 1-90 m/min and a roll diameter in the range of 50-100 mm only insignificantly affect the microgeometry of the burnished surface. The burnishing stress affects the surface microgeometry most. Thus at stresses up to 100 kg the surface geometry is not satisfactory, at stresses between 100 and 600 kg it possesses the optimum value ($H_{CK} = 0.18 - 0.5 \mu$), while in the range of 1,000 - 2,000 kg the surface finish deteriorates. An increase in the longitudinal feed causes a deterioration of the surface microgeometry, moreover, at feeds from 0.8 to 0.25 mm/rev, H_{CK} rapidly increases. The growth of H_{CK} slows down with

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A052/A101

Shif, I. M.

AUTHOR: Shif, I. M.

TITLE: Hardening characteristics of the surface layer of 2-roll burnished parts

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 9, 1962, 38, abstract 9B171 (V sb. "Povysheniye dolgovechnosti detaley mashin poverkhnostn. naklepon". Perm', 1961, 63-85)

TEXT: The methods of determining the physico-mechanical properties of a surface layer hardened by means of 2-roll burnishing are discussed. The hardening of experimental cylindrical samples of steel 15 was performed on a specially designed 2-roll appliance mounted on a screw-cutting lathe. It is shown that the hardening characteristics are interrelated and depend on the conditions of processing. They determine the quality of the surface, the formation of micro-cracks, the residual surface stresses, the strength of the surface layer and the fatigue strength of the whole piece. With an increase of the burnishing force an increase of all hardening characteristics takes place. For instance, at the burnishing with rolls 80 mm in diameter and a force of 2,000 kg the surface

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Hardening characteristics of the surface ...

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macrohardness reaches 306 kg/mm^2 and the maximum microhardness 238 kg/mm^2 . Minimum hardening is realized at small forces ($P = 50 - 200 \text{ kg}$). In this case the depth of cold hardening reaches 0.2 mm. There is a direct relationship between the macrohardness and maximum microhardness (at a distance of 0.05 mm from the surface). This makes it possible to determine the hardening parameters from the value of Vickers macrohardness, produced on the surface with a load of 10 kg. A practical utilization of cold hardening characteristics for controlling the burnishing process will be possible after the relation between the cold hardening characteristics and the service properties of the material has been established. The 2-roll appliance for surface burnishing is recommended for use both in laboratory and workshop conditions. There are 20 references, and 17 figures.

E. Spivak

[Abstracter's note: Complete translation]

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SHIF, I.M.

Self-adjusting attachment for burnishing cylindrical parts.
Mashinostroitel' no. 4:29 Ap '61. (MIRA 14:4)
(Lathes--Attachments)

VERSTAKOV, G.V., kand. tekhn. nauk; SHIF, I.M., kand. tekhn. nauk; MAKSIMOVA,
T.M., inzh.

Degree and character of the wear of the rope in single and double-
layer winding on a drum. Bezop. truda v prom 8 no.11:37-39 N '64.

1. Permskiy politekhnicheskiy institut.

(MIRA 18:2)

I 24819-66 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/EWP(k)/EWP(h)/EWP(l) IJP(c)
ACC NR: AP6006953 (A,N) JD/HW SOURCE CODE: UR/0381/65/000/006/0027/0035

AUTHORS: Shif, I. M.; Neizvestnov, B. M.

ORG: Institute of Physics of Metals, AN SSSR (Institut fiziki metallov AN SSSR);
Perm State University (Permskiy gosuniversitet)

TITLE: Magnetic control of hardening in a plastically deformed surface layer of
steel parts 14 18

SOURCE: Defektoskopiya, no. 6, 1965, 27-35

TOPIC TAGS: steel, plastic deformation, surface hardening, magnetic coercive force,
measuring instrument

ABSTRACT: The method of controlling the hardening of steel parts which undergo
surface plastic deformation is discussed. The method consists of measuring the
magnetic coercive force of surface layers in these specimens. A rolling process 18
is used in which two cylindrical rollers deform specimens by applying a 2000-kg
radial force. The results are shown graphically and in tabular form. They include
curves of coercive force versus applied stress, of coercive force versus number
of passes through a roller, and of coercive force versus hardening characteristics.
The index of relative surface hardening is expressed by

$$\delta = \frac{H_{\mu_{\max}} - H_{\mu_{\text{orig}}}}{H_{\mu_{\text{orig}}}} \cdot 100\%$$

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UDC: 620.179.14

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ACC NR: AP6006953

where $H_{\mu\max}$ indicates the maximum micro-hardness of the surface layer and $H_{\mu\text{orig}}$ is the initial microhardness of the material. A mean square error analysis is made of all the magnetic coercive force measurements. It is concluded that on hardening of the surface the plastic deformation in steel parts changes its coercive force characteristics as a function of the particular hardening process. Orig. art. has: 9 figures, 4 tables, and 7 formulas.

SUB CODE: 13, 11/ SUBM DATE: 16Jun65/ ORIG REF: 014

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SHIF, L. I.

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PHASE I BOOK EXPLATATION SOV/5982

International Conference on High-Energy Physics. 9th, Kiev, 1959.

Dovyntaya moshchunarodnaya konferentsiya po fizike vysokikh energiy, Kiev
15-25 iulya 1959 g. (Ninth International Conference on High-Energy
Physics. Kiev, July 15-25, 1959), Moscow, 1961. 739 p. 2,500 copies
printed.

Sponsoring Agency: Akademija nauk SSSR. Moshchunarodnyj Sojuz chistoy i
priljadnoj fiziki.

Contributors not mentioned.

PURPOSE: This book is intended for nuclear physicists.

COVERAGE: The collection contains 30 scientific articles presented at the 9th
International Conference on High-Energy Physics, held in Kiev from 15 to
25 July 1959. The articles presented relate mainly to the progress in nu-
clear physics achieved in 1959. Subjects discussed are the production of

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Ninth International Conference (Cont.)

SOV/5982

Shtif t , L. I. Nucleon Structure and Electromagnetic Induction	309
Discussion	318
Steinberger, J. Production of Strange Particles	323
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Alvarez, L. V. Interaction Between Strange Particles	348
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Salam, A. Interaction Between Strange Particles	401
Discussion	429
Dalitz, R. H. Hyperfragments and Interaction Between Hyperons and Nucleons	435

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ACC NR: AP6034778

SOURCE CODE: UR/0424/66/000/004/0179/0184

AUTHOR: Shif, M. A. (Moscow)

ORG: none

TITLE: On the compensation for one form of ballistic deviation of a horizon gyrocompass

SOURCE: Inzhenernyy zhurnal. Mekhnika tverdogo tela, no. 4, 1966, 179-184

TOPIC TAGS: gyrocompass, gyroscope motion equation, navigation compass, inertial guidance

ABSTRACT: This article is concerned with the study of gyrocompass error and with methods of compensating for error arising through the presence of a hydraulic damper. A schematic diagram of the sensitive element of a gyrocompass with two dampers is shown in Fig. 1, where 1 is the gyrocompass, 2, 3 - dampers, 4 - the spring moment relay. In the rectangular coordinate system shown, x - positive is East (Ost) and y - positive is North (Nord) in the direction of the resultant kinetic moment H. Dampers are arranged so that their axis of symmetry is situated in the directions NS and O'W of the gyrosphere, hence their combined capabilities allow damping of vibration through any coordinate direction. In view of the problems associated with undamped devices (see A. Yu. Ishlinskiy. K teorii girogorizontkompasa. PMM. 1956, t. 20, 4; and Ya. N. Roytenberg. K teorii giroskopicheskogo kompasa. PMM, 1964, t. 28, 5), gyrocompass

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ACC NR: AP6034778

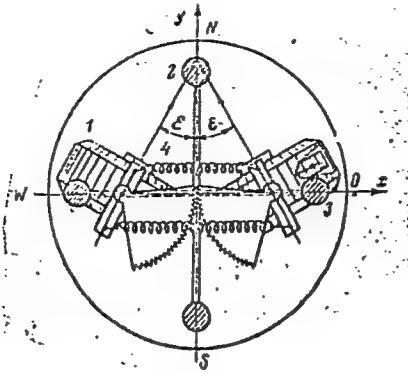


Fig. 1.

damping is considered a necessity. Ballistic deviations exist even with overlapping of the damper linkage tube, and, as the results of this study indicate, the action of Coriolis force on the damper fluid causes a variation of the mirror angle relative to the geocentric horizontal. Evaluation of this residual deviation is analyzed, and a system of equations to be used in compensating for the deviation is developed. Orig. art. has: 35 equations and 3 figures.

SUB CODE: 17/ SUBM DATE: 20Mar66/ ORIG REF: 003

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SHIF, M.D., inzhener.

Installation of ammeters on dual connections. Energetik 4 no.12:23
(MLRA 10:1)
D '56.
(Ammeter)

~~SHIF. S. jnh.~~

Inexpensive, durable, beautiful. Prom. koop. no.5:27 My '58.
(Ash (Tree)) (Hats) (MIRA 11:4)

FROLOV, S.G.; SHIF, Sh.L.; DESYATUN, I.I.; SEMENOV, A.I.; SKRYARENKO,
B.S.

Mechanization of veneer manufacturing shops. ~~Rum.i der.prom.~~
no.4:5-10 O-D '62. (MIRA 15:12)

1. Darnitskiy fanernyy zavod.
(Darnitsa—Veneers and veneering)

POKRAS, V.; RETMAN, A., prepodavatel'; SHIF, V.

Repair of fork lift trucks. Mor. flot 21 no.12:12-13 D '61.
(MIRA 14:12)

1. Starshiy mekhanik garazha avtopogruzchikov Odesskogo porta
(for Pokras). 2. Odesskoye vyssheye morekhodnoye uchilishche (for
Retman). 3. Gruppovoy mekhanik garazha avtopogruzchikov
Odesskogo porta (for Shif)

(Fork lift trucks—Maintenance and repair)
(Cargo handling—Equipment and supplies)

POKRAS, V., inzh.; RETMAN, A., prepodavatel'; SHIF, V.

From experience in the operation of lift trucks.
Mor. flot 22 no.9:17-18 S '62. (MIRA 15:12)

1. Otdel mekhanizatsii Odesskogo porta (for Pokras).
2. Odesskoye vyssheye morekhodnoye uchilishche (for Retman).
3. Starshiy inzhener tsentral'nogo garazha avtopogruzchikov Odesskogo portu (for Shif).

(Fork lift trucks)

POKRAS, V.; RETMAN, A.; SHIF, V.

Changing the design of couplings for motortrucks. Avt.transp.
41 no.2:55-56 F '63. (MIRA 16:2)
(Couplings)

POKRAS, V., inzh.; RETMAN, A., prepodavatel'; SHIF, V.

Construction of motor loaders. Mor. flot 24 no.9:10-11 S 134.
(MIRA 18:5)

1. Odzel mekhanizatsii Odesskogo porta (for Pokras). 2. Odesskoye
morekhodnoye uchilishche (for Retman). 3. Starshiy inzh. tsentralizo-
vannogo garazha avtopogruzchikov Odesskogo porta (for Shif).

Shifarevich I.R.

Pokazateli Ellipticheskikh Krivykh. I.
R. Shifarevich. AN SSSR Dokl., June 1,
1957, pp. 714-716. In Russian. Study
of the exponents of elliptic curves.

SHIFEL'RAYN, A.G., inzh..

Determining the coefficient of heat conduction of highly effective low-temperature insulating materials with the method of a flat bicalorimeter. Trudy VNIIKIMASH no.10:115-121 '65.
(MIRA 18:9)

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PHASE I BOOK EXPLOITATION SOV/2582

Shiferson, Mikhail Mikhaylovich, and Samuil Getselevich Rozenblyum

Modernizatsiya metallorezhushchikh stankov, vyp 19; sbornik informatsionnykh materialov, vyp. 1 (Modernization of Metal-cutting Machine Tools; Nr 19; Information on Bulletin, Nr 1) Moscow, TsNTI, 1958. 35 p. Errata slip inserted. 5,000 copies printed.

Sponsoring Agencies: Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov. Otdel modernizatsii, and Glavniproekt pri Gosplane SSSR.

Ed.: A. Ye. Prokopovich; Tech. Ed.: T. V. Alekseyeva.

PURPOSE: This collection of articles is intended for engineering and technical personnel engaged in the modernization of metal-cutting machine tools.

COVERAGE: The collection of articles discusses the design of modernized assemblies, mechanisms, and fixtures intended to increase the productivity of grinding machines. Design modifications introduced at the Chkalovskiy stankozavod (Chkalov Machine Tool Plant) on the Model 7417 Slotter are also discussed. No personalities are mentioned. There are 25 references, all Soviet.

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Modernization of Metal-cutting Machine Tools (Cont.)

sov/2582

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Shiferson, M. M. Modernization of the Headstock-lifting Mechanism for the MS2 Model 372 Surface Grinding Machine	3
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Modernization of Metal-cutting Machine Tools (Cont.)	SOV/2582
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Modernizing the Grinding Head of the "Lindner" Thread'grinding Machine	21
Frumkin, F. D. Universal Magnetic Table	22
Rosenblyum, S. G. Design Charges Introduced on the Model 7417 Slotter Manufactured by the Chkalov Machine Tool Plant	24
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AVAILABLE: Library of Congress	

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JG/mg
11-9-59

SHIFERSON, N.M.

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Q.2

PHASE I BOOK EXPLOITATION SOV/2613

Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov... Otdel modernizatsii

Modernizatsiya metallorezhushchikh stankov; sbornik informatsionnykh materialov, vyp. 2 /20/ (Modernization of Metal-cutting Machine Tools; Collection of Informatiive Materials, Nr 2/20/) Moscow, TzSTI, 1958. 44 p. Errata slip inserted. 5,000 copies printed.

Sponsoring Agency: Glavniiiprojekt pri gosplane SSSR.

Ed.: A.Ye. Prokopovich; Tech. Ed.: T.V. Alekseyeva.

PURPOSE: This brochure is intended for designers and manufacturers of machine tool attachments.

COVERAGE: The articles in the brochure briefly describe automatic loading attachments for universal metal-cutting machine tools which are successfully used by various plants. These attach-

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Modernization (Cont.)

SOV/2613

ments are used to facilitate the reduction of support time and to ease the work of operators. Specific design changes introduced on currently manufactured spline-broaching machines and representative machine tool modernization projects are also discussed. No personalities are mentioned. There are 21 Soviet references.

TABLE OF CONTENTS:

<u>Shiferson, M.M.</u> Loading Attachment for the "Cincinnati" Model 2 Centerless Grinder for Chamfering Valve Seats	3
Pezik, M.O. Magazine Loading Attachment for Grinding Cylindrical Parts Such As Rollers 1.5 to 5mm. in Diameter	7
Perl'shteyn, Ye.A. Attachment for Loading Needle-shaped Rollers Into the "Multimat" Centerless Grinder	10
Zabrodskiy, P.A. Hopper for Automatic Loading of Centerless Grinders	14

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Shiferson, M.M. Loading Attachment for a Thread-rolling Machine Tool	24
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Modernization (Cont.)

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JG/Jb
12-15-59

SHIFERSON, M. M.

Charging device for the 2-type centerless grinding machine
made by the Cincinnati Company for chamfering valve seats.
Mod.metallorezh.stau. no.2:3-6 '58. (MIRA 13:5)
(Grinding machines)

SHIFFERSON, M.M.

Charging device for thread-rolling machines. Mod. metallorezh.
stan. no. 2:24-26 '58. (MIRA 13:5)
(Screw-cutting machines)

S/121/61/000/008/001/006
D041/D113

AUTHORS: Gladkov, B.A.; Mayorova, E.A.; Shilkin, O.D.; Shiferson, M.M.

TITLE: The use of plastics for manufacturing large-size components
of machine-tools

PERIODICAL: Stanki i instrumenty, no. 8, 1961, 1-4

TEXT: The article describes experimental investigations carried out with plastics in order to determine the extent to which they may be used for manufacturing large-size components of metal cutting machine-tools. These components can be manufactured by casting or by contact molding, the latter producing better mechanical properties in the components. The hardness of large-size components manufactured by the casting method can be raised by improving the properties of the binding and fiber fillers. As glass fibers in the form of cloth etc. can be used as fillers, the use of glass plastics for making lathe components was considered. Since there was practically no data on the stability of glass plastics, their swelling-up and creep characteristics were investigated in detail. The swelling-up of the specimens was tested in water-cooling liquids and mineral oil at a high relative hu-

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The use of plastics...

humidity ($95 \pm 5\%$) and temperature ($50 \pm 5^{\circ}\text{C}$). The creep characteristics were investigated by loading the specimens so as to produce bending, i.e. by applying a concentrated force to the center of the specimen which was placed on two supports. Plastic specimens obtained by contact molding from PN-1 (PN-1) polyester gum and T (T) glass cloth, and by hot pressing from KACTB (KAST V) glass textolite, AG-4S (AG-4S) glass plastics and RA glass textolite (CSR brand), were tested. The creep of plastics made of epoxy resin and a metal filler by mold casting, was also investigated. The specimens were covered either by a protective layer or by "924" nitro-enamel. They were weighed on an analytical balance with an accuracy of up to 0.0004 g. The following results were obtained: KAST V glass textolite showed the largest change in weight (1.26%), the saturation point being reached after 19 days; glass plastics made of PN-1 polyester gum showed a weight increase of 0.6% and did not attain the saturation point after 83 days; AG-4S glass plastics had the least change in weight (0.19% after 83 days), and RA glass textolite attained a maximum water absorption (0.77%) after 6 days. Tests in the humidity chamber showed that KAST V glass textolite had the largest humidity absorption, while AG-4S and glass plastics obtained by contact

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The use of plastics...

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molding showed the lowest hygroscopicity. The nitro-enamel layer did not protect the specimens from humidity and the oil cooling liquids. Linear changes in the plastics depended on the medium in which they were placed, on the method of their manufacture, on their machining, and on the type and quantity of the binding agent. Cooling liquids and a high relative air humidity reduced the mechanical properties by 1.5-2 times. Creep tests were carried out at room temperatures using the $\Pi K-2$ (PK-2) device designed by ENIMS. This device permitted deformations during bending at constant load to be measured. KAST V glass textolite served as a reference specimen. The results show that AG-4S and RA have the lowest creep, while cast specimens of epoxy resins with a metal filler have the highest (15-20 times higher than the reference specimen's creep at a bending stress of $100-200 \text{ kG/cm}^2$), and cannot be used for making high-duty components of metal-cutting machine-tools. It is concluded that glass plastics can be used only for large-size machine-tool components. ENIMS and NIIP have manufactured a series of large-size components for the $1K62$ ($1K62$) screw-cutting lathe in order to validate the obtained results. The zavod "Stankokonstruktsiya" ("Stankokonstruktsiya" Plant) has manufactured the following parts for the $1K62$

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The use of plastics...

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lathe from glass plastics; front and rear legs, rear leg inserts, tray, gearbox and feeding box covers, and housings. Test runs gave good results. There are 4 figures.

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ARBUZOV, S.V.; FRIDMAN, B.I.; SHIFEL'MAN, L.V.

An experiment in smoothing stiff hides by machine. Leg.prom.15
no.10:42-44 O '55. (MLRA 9:1)
(Hides and skins)

~~SHIFEL'MAN, L.~~; KAPLAN, I.

Simplifying computation of wages. Prem. keep. no. 9:9-10 S '56.
(Piecework) (MIRA 9:10)

SHIFEL'MAN, L.V.; KAPLAN, I.D.

Simplify the computation of wages. Leg.prom. 15[i.e. 16] no.6:
13-16 Je '56. (MLRA 9:8)
(Wages--Tables and ready reckoners)

SHIFEL'MAN, L.V.; FRIDMAN, B.O.

Interfactory conference of innovators in cutting and burnishing of
chrome leather. Leg. prom. 16 no.1:38-42 Ja '56. (MLRA 9:6)
(Leather industry--Congresses)

SHIEFSON, M.M.

Modernizing the mechanism for lifting grinding-wheel heads of
the MSs 372-type surface-grinding machine. Mod. metallorezh stan.
no.1:3 '58. (MIRA 12:12)
(Grinding machines)

SHIFERSON, N. I.

"On various criteria for the stability of regulation systems", by Candidate
of Technical Sciences N. I. Shiferson, at the Power Engr. Inst. im KRZHIZHANOVSKIY
of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

SHIFFER, I. V.,

"Impairment and Reparation Processes in the Epithelium of the Cornea Due to Exposure to X-Rays. (Histological Research)" (Dissertation for Degree of Candidate of Biological Science) Leningrad Order of Lenin State U imeni A. A. Zhdanov, Leningrad, 1955

SO: M_1036 28 Mar 56

SHIFFER, I. V.

✓ The course of radiation sickness in mice under reduced barometric pressure. I. B. Bykhol'skaya, A. S. Strel'm, and I. V. Shiffer. *Med. Radiologiya* 1, No. 3, 85-92 (1950).
Expts. were performed under reduced atmospheric pressure equivalent to an altitude of 4000-5000 m. using 1300 male mice of 18-18 g. Some were subjected to the reduced barometric pressure without previous irradiation for control purposes, the remainder were irradiated with Co^{60} by 770-1000 r. Animals were then subjected to reduced atmospheric pressure with a partial O tension of 93-80 mm Hg attained within 20-30 min.; return to normal pressure was brought about at the same speed. Under the conditions of the expts. changes in the course of the irradiation disease were observed only in mice irradiated with the sublethal dose followed by hypoxia for 30 days at 18 hrs./day. The effects of prolonged periods of hypoxia sharply differed and depended upon the time elapsing after the irradiation. Exposing animals to hypoxia 1-4 days after irradiation raised the % mortality; subjecting them to conditions of hypoxia 5-12 days after irradiation only slightly lowered the % survival, and subjecting the animals to conditions of hypoxia 13-25 days after irradiation appeared to have a favorable effect on survival. The hypoxia, as produced in these expts., had no effect on the erythrocyte or leucocyte counts of the blood.
B. S. Levine

Cent. Sci. Res. Roentgeno-Radiological Inst., Min. Health USSR and
Lab. of Exptl. Morphology

SHIFFER, I.V.

Mechanism of repair of tissue lesions induced by X rays. Med.rad.
2 no.4:38-44 Jl-Ag '57. (MIR 10:11)

1. Iz laboratorii eksperimental'noy morfologii (zav. - prof. G.S. Strelin) TSentral'nogo nauchno-issledovatel'skogo rentgeno-radio-

logicheskogo instituta Ministerstva zdravookhraneniya SSSR.

(ROENTGEN RAYS, effects,

on corneal epithelium, healing of induced lesions in
animals (Rus))

(CORNEA, effect of radiations,

x-rays, healing of induced lesions in animals (Rus))

SHIFFER, I.V.

Variation of the sensitivity of *Gastroidea viridula* and
Lumbriculus variegatus to the action of X rays under anoxic
conditions. *Vop.radiobiol.* 2:49-51 '57. (MIRA 12:6)

1. Sotrudnik TSentral'nogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya SSSR.
(X RAYS--PHYSIOLOGICAL EFFECT) (ANOXEMIA)

SHIFFER, I.V.

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PHASE I BOOK EXPLOITATION SOV/5435

Kiselev, P. N., Professor, G. A. Gusterin, and A. I. Strashinin, Eds.

Voprosy radiobiologii. t. III: Sbornik trudov, posvyashchenny 60-letiyu so
dnya rozhdeniya Professora M. N. Pobedinskogo (Problems in Radiation Biology.
v. 3: A Collection of Works Dedicated to the Sixtieth Birthday of Professor
M[ikhail] N[ikolayevich] Pobedinskiy [Doctor of Medicine]) Leningrad.
Tsentr. n-issl. in-t mzd. radiologii M-vn zdravookhraneniya SSSR, 1960.
422 p. 1,500 copies printed.

Tech. Ed.: P. S. Peleshuk.

PURPOSE: This collection of articles is intended for radiobiologists.

COVERAGE: The book contains 49 articles dealing with pathogenesis, prophylaxis,
and therapy of radiation diseases. Individual articles describe investigations
of the biological effects of radiation carried out by workers of the Central
Scientific Research Institute for Medical Radiology of the Ministry of Public
Health, USSR. [Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii Ministerstva zdravookhraneniya SSSR] during 1958-59. The following:

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Problems in Radiation Biology (Cont.)

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topics are covered: various aspects of primary effects of radiation; the course of some metabolic processes in animals subjected to ionizing radiation; reactions in irradiated organisms; morphologic changes in radiation disease; and reparation and regeneration of tissues injured by irradiation. Some articles give attention to the effectiveness of experimental medical treatments. No personalities are mentioned. References accompany almost all of the articles.

TABLE OF CONTENTS:

Foreword

3

Gusterin, G. A., and A. I. Strashinin. Professor Mikhail Nikolayevich Pobedinskiy (Commemorating his Sixtieth Birthday)

5

Lebedinskiy, A. V. [Member, Academy of Medical Sciences USSR], N. I. Arlashchenko, and V. M. Mastryukova. On the Mechanism of Trophic Disturbances Due to Ionizing Radiation

11

Zedgenidze, G. A., [Member, Academy of Medical Sciences USSR], Ye. A. Zherbin, K. V. Ivanov, and P. R. Vaynshteyn. Hormonal Activity of the Adrenal Cortex in Acute Radiation Sickness and the Effect of Desoxycorticosterone Acetate on the Disease

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Problems in Radiation Biology (Cont.)	SOV/5435
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Pushnitsina, A. D. Reactive Changes in Rat Marrow in Radiation Sickness Complicated by Loss of Blood	233
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L 18198-63

EWT(l)/EWT(m)/BDS/ES(j)

AMD/AFETC/ASD

AR/K

ACCESSION NR: AP3005653

S/0219/63/056/007/0087/0091

60

57

AUTHOR: Strelin, G. S. (Professor, Director); Shiffer, I. V.TITLE: Effect of single and repeated ionizing irradiation on liver regeneration in white mice

SOURCE: Byulleten' eksperimental'noy biologii i meditsiny*, v. 56, no. 7, 1963, 87-91

TOPIC TAGS: liver regeneration, single gamma irradiation, repeated gamma irradiation, Co-60

ABSTRACT: Liver regeneration was studied in mice exposed to single gamma radiation (Co-60, 20 r/min) of 1000 r and in mice exposed to gamma radiation (Co-60, 0.0232 r/min) for 50 min daily over a period of 30 days. The entire left lateral part of the liver (comprising 30% of total liver weight) was removed under ether. The liver regeneration rate was determined by weighing the removed part and then weighing the remaining part of the liver at different periods after the resection. Regeneration intensity was measured by the gain in moist and dry weight (the liver was dried at 100°). compared to control

Card 1/3

L 18198-63

ACCESSION NR: AP3005653

weight figures. Results indicate that liver regeneration in mice exposed to single gamma radiation of 1000 r is sharply depressed. Moist weight gain comprises only 50% of control weight gain after the resection. Dry weight gain was too small to be measured. But, liver regeneration for animals exposed to 1000 r over 30 days is not depressed as measured by moist and dry weight. With the lower repeated dose rates the radiation action effect is apparently lost. It is not clear whether reparation has time to compensate for radiation damage in prolonged irradiation or whether regeneration in single irradiation is affected by the presence of radiation sickness. The author is inclined to accept the second explanation because other studies have shown that only very large radiation doses depress liver regeneration. Orig. art. has: 3 figures, 1 table.

ASSOCIATION: Laboratoriya eksperimental'noi i patologicheskoy morfologii tsentral'nogo nauchno-issledovatel'skogo instituta meditsinskoy radiologii (Dir. Ye. I. Borob'yev) ministerstva zdravokhraneniya SSSR, Leningrad (Laboratory of Experimental and Pathological Morphology of the Central Scientific-Research Institute of Medical Radiobiology (Dir. Ye. I. Vorob'yev) of the Ministry of Health, USSR)

Card 2/3

SHIFFER, I.V.

Effect of radiation and hormonal stimulants on the development of
mammary glands in pregnant mice. Radiobiologija 4 no.6:896-903 '64.
(MIRA 18:7)

1. Tsentral'nyy nauchno-issledovatel'skiy institut meditsinskoy
radiologii Ministerstva zdravookhraneniya SSSR, Leningrad.

SHIFFER, V.V. (Moskva)

Role of the nurse in the capitalist enterprises of Europe. Med.
sestra 20 no. 2:43-46 F '61.
(MIRA 14:4)
(EUROPE, WESTERN—NURSES AND NURSING)

SHIFFERS, A.B., inzh.

Assembling gantry cranes with 23 m span length. Nov. tekhn. i
pered. op. v stroi. 20 no. 7:22-24 Jl '58. (MIRA 11:8)
(Cranes, derricks, etc.)

I. 10299-57 DMT(1)/REC(k)-2 IJP(c) SOURCE CODE: UR/0237/66/000/007/0033/0039
ACC N# AP7003093 34

ENYUSHIN, A. I., SHIFFERS, L. A.

CLASS: none
"Interference Method of Controlling Concave Parabolic Surfaces"

Leningrad, Optiko-Mekhanicheskaya Prom., No 6, 66, pp 33-39

TOOL TAGS: interferometer, laboratory optic instrument
ABSTRACT: An experimental model of a new optical interferometer for checking the correctness of form of concave parabolic surfaces with large and small relative apertures is described, and the results of its testing are presented. A calculation of the interference band is presented, and the problem of deformation of the spherical wave surface during defocusing of a controllable parabolic surface is analyzed. It was determined that the maximal difference in wave aberrations during defocusing to 0.13 millimeters does not exceed 0.03 μ , the measurement error limit, which characterizes the accuracy of measurement of local errors by the interference ring method. Orig. art. has: 8 figures, 3 formulas and 1 table. [JPRS: 38,228]

SUB CODE: 14 / SUBM DATE: 04Sep65 / ORIG REF: 010

UDC: 535.411:535.317.9

Card 1/1

SHIFFERS, Ye. V.

ANDREYEV, V.N.; GALKINA, Ye.A.; IGOSHINA, K.N.; LAVRENKO, Ye.M.; RODIN, L.Ye.,
SAKHOKIA, M.P.; SEMENOVA-TYAN-SHANSKAYA, A.M.; SOCHAVA, V.B.; SHIF-
FERS, Ye.V.; PEVZNER, R.S., tekhnicheskiy redaktor

[Vegetation map of European U.S.S.R. on a scale of 1:2,500,000;
explanatory text] Karta rastitel'nosti Evropeiskoi chasti SSSR.
m. 1:2,500,000. Poiasnitel'nyi tekst. Sost. V.M.Andreev i dr.
Pod red. E.M.Lavrenko i V.B.Sochavy. Moskva, 1950. 288 p.
(MIRA 10:7)

1. Akademiya nauk SSSR. Botanicheskiy institut.
(Phytogeography)

SHIFFERS, Ya. V.

Botany - Geographical Distribution

Characteristics of vegetation of natural forage lands of northwestern Caucasus
Trudy Bot. inst. An SSSR. Ser. 3, No. 7, 1951.

9. MONTHLY LIST OF RUSSIAN ACCESSIONS, Library of Congress, June 1952. Uncl.

SHIFFERS, Ye.V.; SHENNIKOV, A.P., redaktor.

[Vegetation of Northern Caucasus and its natural pastures] Rasti-
tel'nost' Severnogo Kavkaza i ego prirodnye kormovye ugod'ia.
Moskva, Izd-vo Akademii nauk SSSR, 1953. 399 p. (MLRA 6:12)

1. Chlen-korrespondent Akademii nauk SSSR (for Shennikov).
(Caucasus, Northern--Botany) (Botany--Caucasus, Northern)

BEYDEMAN, I.N.; SHIFFERS, Ye.V., doktor biologicheskikh nauk, redaktor;
VIKHREV, S.D., redaktor; ARONS, R.A., tekhnicheskiy redaktor

[Methodology of phenological observations in geobotanical research]
Metodika fenologicheskikh nablyudenii pri geobotanicheskikh issledo-
vaniakh. Moskva, Izd-vo Akademii nauk SSSR, 1954. 128 p. (MLRA 7:8)
(Phenology) (Botanical research)

SHIFFERS, Ye.V.

N.I.Kuznetsov as founder of the geobotanical section of the Main Botanical Garden of the People's Commissariat of Agriculture, at present the Botanical Institute of the Academy of Sciences of the U.S.S.R. Bot.zhur. 42 no.9:1325-1330 S '57. (MLRA 10:7)

1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.
(Kuznetsov, Nikolai Ivanovich, 1864-1932) (Phytogeography--Research)

SHIFFERS, Ye.V.

Some discordances in typological schemes and the interpretation of
vegetation zones in alpine regions of the Caucasus. Probl. bot.
(MIRA 13:10)
5:127-134 '60.

i. Botanicheskiy institut AN SSSR, Leningrad.
(Caucasus—Mountain ecology)

SHIFFERS, Ye. V.; SUKHOVERKO, R.V.

Dynamics of accumulation of overground vegetable matter in desert,
steppe, and meadow biogeocoenoses of the Terek-Kuma Lowland.
Bot. zhur. 45 no.4:555-564 Ap '60. (MIRA 14:5)

1. Botanicheskiy institut im. V. L. Komarova AN SSSR, Leningrad.
(Terek Valley—Pasture research)
(Kuma Valley—Pasture research)

CHILIKINA, Lidiya Nikolayevna; SHIFFERS, Yevgeniya Vladimirovna,
doktor biol. nauk. Prinimala uchastiye: VOLKOVA, I.I.; YARULLINA,
N.A.; PETROVICHEVA, O.L., red. izd-va; GALIGANOVA, L.M., tekhn.
red.

[Map of the vegetation of the Daghestan A.S.S.R.] Karta rasti-
tel'nosti Dagestanskoi ASSR. Otv. red. E.V.Shiffers. Moskva,
Izd-vo Akad. nauk SSSR, 1962. 95 p. (MIRA 16:1)
(Daghestan--Phytogeography--Maps)

SHIFFERS, Ye. V.

"A study of succession in plant communities of the West Ciscaspian region
provoked by the Caspian sea level fluctuations."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64.

AS USSR.

SHIFFERS, Ye.V.

Perennial repeated geobotanical studies and permanent profiles
(topoecological series). Izv. AN SSSR. Ser. geog. no.3:24-26
:64. (MIRA 17:6)

1. Botanicheskiy institut AN SSSR im. V.L. Komarova.

SHIFFERS, Ye.V.

On the history of phytogeographical cartography in the U.S.S.R.;
brief information. Bot. zhur. 50 no.4:576 Ap '65.

(MIRA 18:5)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

SHIFFIN, A.Sh., kand.tekhn.nauk, red.; BELOGUROVA, I.A., tekhn.red.

[Machining of stainless and heat-resistant steels and alloys;
a bibliography] Mekhanicheskaja obrabotka nerzhavejushchikh
i zharoprochnykh stalei i splavov; bibliograficheskii ukazatel".
Pod red. A.Sh.Shifrina. Leningrad, Ob-vo po raspr. polit. i
nauchn.znanii RSFSR, 1960. 22 p. (MIRA 14:4)

1. Leningradskiy dom nauchno-tehnicheskoy propagandy.
(Bibliography--Metal cutting)

"APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001549410009-8

САЛЯНДІКІН, А. САЛОВІЙ, А. П.

ТЕПЛОФІКАЦІЯ - ПРИКЛАДНІ РАСЧЕТОВІ ЗАДАЧІ (Thermification - Examples of Calculations & Problems - Textbook), 1946

APPROVED FOR RELEASE: 08/25/2000

CIA-RDP86-00513R001549410009-8"

SHTFINAN, D.

USSR/Electronics - Loudspeakers

Card 1/1

Author : Shifinan, D.

Title : New Loudspeakers

Periodical : Radio, 3, 38 - 39, Mar, 1954

Abstract : New types of loudspeaker designs are described. The 0.5GD-5 type loudspeaker is intended for battery-type radio sets and the 0.5GD-2, for AC power supply radio sets. A general view of a loudspeaker is given together with frequency characteristic curves and a table of specifications for the loudspeakers.

Institution :

Submitted :

GREBE, A., doktor nauk; REYNISH, G., doktor nauk; TSIMMERMAN, G., doktor nauk;
GREBE, F., doktor nauk; UL'BRIKHT, I., doktor nauk; SHIFFNER, R.,
doktor nauk; FILIPP, B., doktor nauk; RUSHER, Kh., doktor nauk;
GASPERSON, G., doktor nauk; KLAPE, G., doktor nauk; YAKOPYAN, V.

Search and solutions; important research of the German Democratic
Republic chemists. Priroda 54 no.6:83-88 Je '65.

(MIRA 18:6)

1. Institut izucheniya volokna Germanskoy Akademii nauk v Berline,
g. Tel'tov, Germanskaya Demokratische Respublika.

SHIFLINGER, L.

Local penicillin therapy of suppurative mastitis. Akush gin.
No.1:47-48 Jan-Feb 51.
(CIML 20:5)

1. Lt-Col, Medical Corps.

SHIFLINGER, L.Ye.

Elimination of the separated after-birth. Akush. i gin. 32 no.1:
72-74 Ja-F '56 (MLRA 9:6)

(LABOR
third stage, contraindic. for artif. acceleration)

SHIFLINGER, L.Ye.

Surgical treatment of pathological states of the cervix uteri.
Akush. i gin. no.2:86-88 *63. (MIRA 16:10)
(UTERUS — SURGERY)

SHIFLINGER, L.Ye.; LYKOV, G.P.

Case of oncogenetic inversion of the uterus. Akush. i gin.
39 no.5:145-146 S-0 '63. (MIRA 17:8)

ABDULLAYEV, S.G.; SHIFMAN, A.A.

A survey of diseases of fruit crops in Kuba District, Azerbaijan
S.S.R. Izv. AN Azerb. SSR. Ser. biol. i med. nauk no.6:43-49 '61.
(MIRA 14:8)
(KUBA DISTRICT--FRUIT--DISEASES AND PESTS)

KOZLOV, T.I., prof., doktor ekon.nauk, otv.red.; BREGEL', E.Ya., prof., doktor ekon.nauk, red.; BUKH, Ye.M., dotsent, kand.ekon.nauk, red.; ZHEBRAK, M.Kh., prof., doktor ekon.nauk, red.; ISAKOV, V.I., dotsent, kand.ekon.nauk, red.; FREYMUND, Ye.N., dotsent, kand.ekon.nauk, red.; SHIVCHUK, A.V., kand.ekon.nauk, red.; SHIFMAN, A.G., dotsent, kand.ekon.nauk, red.; SHCHAPINA, T.A., dotsent, kand.ekon.nauk, red.; USTIYANTS, V.A., red.; MELENT'YEV, A.M., tekhn.red.

[Problems in statistics and accounting; a collection of articles on machine accounting] Voprosy statistiki i ucheta; sbornik statei po mekhanizatsii ucheta. Moskva, Gos.stat.izd-vo, No.2, 1959. 350 p. (MIRA 13:6)

1. Moscow. Ekonomiko-statisticheskiy institut.
(Machine accounting)

KOZLOV, T.I., prof., otv. red.; BREGEL', E.Ya., prof., red.; BUKH, Ye.M., dots., red.; ZHEBRAK, M.Kh., prof., red.; ISAKOV, V.I., dots., red.; FREYMUNDT, Ye.N., dots., red.; SHIFMAN, A.G., dots., red.; SHCHAPINA, T.A., dots., red.; SHEVCHUK, A.V., kand. ekonom. nauk, red.; SHENTSIS, Ye.M., red.; PYATAKOVA, N.D., tekhn. red.

[Problems in statistics and accounting] Voprosy statistiki i ucheta. Moskva, Gosstatizdat, TzSU SSR. No.3. [Collection of articles on labor productivity statistics in industry] Sbornik statei po statistike proizvoditel'nosti truda v promyshlennosti. 1961. 145 p.
(MIRA 14:8)

1. Moscow. Ekonomiko-statisticheskiy institut.
(Productivity—Accounting)

BAKLANOV, G.I., prof.; IVANOV, A.I., dots.; SHIFMAN, A.G., dots.; USTINOV, A.N., dots.; GRYAZNOV, V.I., red.; KAPRALOVA, A.A., tekhn. red.

[Statistics of an industrial enterprise] Statistika promyshlennogo predpriatiia. Pod red. G.I.Baklanova. Moskva, Gosstatizdat TsSU SSSR, 1961. 434 p. (MIRA 14:12)

1. Moscow. Ekonomiko-statisticheskiy institut. Kafedra promyshlennoy statistiki. 2. Kafedra promyshlennoy statistiki Moskovskogo ekonomiko-statisticheskogo instituta (for Baklanov, Ivanov, Shifman, Ustinov).

(Industrial statistics)

ADAMOV, V.Ye.; BAKLANOV, G.I., prof.; IVANOV, A.I.; SAMOYLOVA,A.A.;
USTINOV, A.N.; SHIFMAN, A.G.; SHCHEDRIN, N.I.; CHIZHEVSKAYA,
K.M., red.

[Collecting of problems on industrial statistics] Sbornik za-
dach po statistike promyshlennosti. Moskva, Izd-vo "Statistika,"
1964. 247 p.
(MIRA 17:5)

BAKLANOV, Gleb Ivanovich, prof.; IVANOV, Aleksandr Ivanovich,
dots.; USTINOV, A.N., dots.; SHIFMAN, A.G., dots.;
NOVIKOVA, S.N., red.

[Industrial statistics] Statistika promyshlennosti. Mo-
skva, Statistika, 1965. 358 p. (MIRA 18:6)

AUTHOR:

Shifman, A.I., Candidate of Philological Sciences

SOV-25-50-9-44/62

TITLE:

"I am an Enemy of Falsehood in Science" ("Ya protivnik lzhi v nauke") (The 130th Anniversary of the Birth of L.N. Tolstoy) (K 130-letiju so dnya rozhdeniya L.N. Tolstogo)

PERIODICAL: Nauka i zhizn', 1958, Nr 9, pp 70-71 (USSR)

ABSTRACT:

A meeting between L. Tolstoy and I. Mechnikov in 1906 is described. Leo Tolstoy said that he was an enemy of every pseudo-science that leads to the destruction of humanity. His pacifist ideas are quoted from his different works. There is 1 photo and 5 Soviet references.

1. Scientific personnel--USSR

Card 1/1

SHIFMAN, A. I., kand.filol.nauk

L.Tolstoi and science. Nauka i zhizn' 27 no.11:67-70 N '60.
(MIRA 13:12)
(Tolstoi, Lev Nikolaevich, 1828-1910)

Shifman, A. S.

Shifman, A. S.

"The Effect of the Temperature in the External Environment on the Consumption of Proteins by the Animal Organism." Min Higher Education. Kiev Veterinary Inst. Kiev, 1955. (Dissertation for the Degree of Candidate in Biological Science).

SO: Knizhnaya Letopis'
NO: 27, 2 July, 1955

GLUSHAKOVA, N.Ye. [Hlushakova, N.E.]; LAGUTO, F.M. [Lahuta, F.M.];
IVANOVA, V.S.; MEREZHINSKIY, M.F. [Merazhynski, M.F.]; TARANOVICH,
G.L. [Taranovich, H.L.]; SHIFMAN, A.S. [Shyfman, A.S.]

Biosynthesis and metabolism of ascorbic acid in white rats during
fractional ionizing irradiation in small doses. Vestsi AN BSSR.
Ser. biyal. nav. no.2:96-101 '62. (MIRA 15:8)
(RADIATION—PHYSIOLOGICAL EFFECT) (ASCORBIC ACID)

SHIFMAN, D., inzh.

Loudspeakers for radiobroadcast and television receivers. Radio
no. 1G:49-50 O '64. (MIRA 18:2)

SHIFMAN, D. Kh.

"Concerning the Qualitative Indexes of the Sound of Radio Broadcast Receivers," a paper presented at VNORIE Conference on radio broadcast receivers, Riga, Sep. 53.

Translation No.533, 6 Apr 56

SHIFMAN, D. (Leningrad)

USSR/Electronics - Receivers

Oct 53

"Effect of Frequency Distortions on the Quality of Sound Reproduction," D. Shifman, Leningrad

Radio, No 10, pp 25-27

Research by IRPA (Inst of Radio Broadcast Reception and Acoustics) with equipment capable of reproducing 40-12000 kc with a variation of \pm 2.5 db showed audio quality is improved by extending freq bands to proper limits and keeping the freq characteristic curve " π -shaped." Also the band pass limits of

276T24

various receivers need to be made more precise.
Author comments on deficiencies of GOST 5651-51 on broadcast receivers.

USSR/ Electronics - Amplifiers

Card 1/1 Pub. 89 - 11/28

Authors : Shifman, D.

Title : Abonne's loudspeakers for rural radioification

Periodical : Radio 1, 20-21, Jan 1954

Abstract : Specifications are listed for amplifiers intended for use in rural radioification. The amplifiers are of the electrodynamic and electromagnetic classes. Table; graph.

Institution:

Submitted:

SHIFMAN, D.

New loud-speakers. Radio no.3:38-39 Mr '54.

(MIRA 7:3)
(Loud-speakers)

SHIFMAN, D.

USSR/Electronics - Home instructions

Card 1/1 : Pub. 89 - 28/29

Authors : Shifman, D.

Title : How a loudspeaker is made

Periodical : Radio 7, 61-62, July 1954

Abstract : Detailed instructions, explaining how a beginner could make a dynamic
loudspeaker at home, are given.

Institution : ...

Submitted : ...

AID P - 4945

Subject : USSR/Electronics

Card 1/1 Pub. 89 - 12/18

Author : Shifman, D.

Title : New loudspeakers

Periodical : Radio, 8, 38-40, Ag 1956

Abstract : The author presents the new types of loudspeakers developed at the Institute of Radio Broadcasting Reception and Acoustics. Eleven types are discussed and their specifications presented in tabular form. Five drawings with charts.

Institution : None

Submitted : No date

SHIPMAN D.E.-B

24(1)

PHASE I BOOK EXPLOITATION

SU/1627

Vsesoyuznaya akusticheskaya konferentsiya. 4th, Moscow, 1958

Soferty dokladov (Abstracts of Reports at the Fourth All-Union Acoustical Conference) Pt. 2. Moscow, Akad. nauk SSSR, 1958. 44 p. Number of copies printed not given.

Sponsoring Agency: Akademika nauk SSSR.

Resp. Ed.: L.M. Bratkovskikh, Corresponding Member, USSR Academy of Sciences.

PURPOSE: These abstracts are intended for scientists and engineers interested in acoustics.

COVERAGE: This is a mimeographed collection of brief abstracts of papers presented at the Fourth All-Union Acoustical Conference. The subjects covered are propagation of sound in nonhomogeneous media, nonlinear acoustics, ultrasonics, acoustic measurements, electromechanics and architectural and structural acoustics.

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✓ Matkov, G.V. Some Investigations of Mechanical Acoustical Systems of Electrostatic Sound Receivers	28
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✓ Shifman, D.E. Acoustic Radiating Systems of Modern Radio Receivers and Television Receivers	31
 SECTION VII. ARCHITECTURAL AND STRUCTURAL ACOUSTICS	
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✓ Gardashyan, V.M. Investigation of Acoustic Properties of Halls by Models	35

Card 7/9

SHIFMAN, D. KH.

"Sound Reproduction Systems of Modern Radio and Television Receivers."

paper presented at the 4th All-Union Conf. on Acoustics, Moscow, 26 May - 2 Jun 58.

AUTHOR: Shifman, D. SOV/107-58-11-23/4C

TITLE: The Acoustic Systems of Modern Radio Broadcasting and Television Receivers (Akusticheskiye sistemy sovremennoykh radioveshchatel'nykh i televizionnykh priyemnikov)

PERIODICAL: Radio, 1958, Nr 11, pp 33-36 (USSR)

ABSTRACT: The Scientific Research Institute for Radio Reception and Acoustics (IRPA) has developed acoustic systems for unified radio receivers with wide directivity characteristics, reproducing frequencies from 40-60 to 12,000-15,000 cycles. The lower frequencies are produced by two frontal loudspeakers with spaced resonance frequencies, placed side by side and oscillating in phase with one another. The higher frequencies are produced by frontal loudspeakers with twin diffusors and two additional h-f loudspeakers located in the side panels of the radio receiver. Comparative data for the acoustic systems of unified radio receivers is given in Table 1. The IRPA has also developed new and more perfect acoustic systems for projected radio receivers and television sets, that most preferred being a three-channel system, which is switched in to a two-channel amplifier. The third channel is produced by splitting up the signal at the output of the h-f voltage amplifier bet-

Card 1/3

SOV/107-56-11-23/40

The Acoustic Systems of Modern Radio Broadcasting and Television Receivers

ween the medium frequency and high frequency loudspeakers by means of a separating capacitance. Descriptions are given of the acoustic systems of the "Ametist" radio receiver (Fig. 1) and the "Kristall" console (see drawing) and radio receiver. Figure 2 shows the disposition of the loudspeakers in the "Kristall" console, Figure 3 its frequency characteristics, and Figure 4 a diagram of its directivity. The higher-quality radio consoles and television sets usually have the lower part assigned for the acoustic system and the l-f loudspeakers are placed deep inside the cabinet (Fig. 5) in order to reduce the volume resonance. To improve the reproduction of the lower frequencies, in some models the l-f loudspeaker is installed in the base of the cabinet and emits the sound towards the floor (Fig. 6). Further improvement in quality can be achieved by a distributed three-channel acoustic system (Fig. 7), which is described in great detail. It has a range of 40 to 18,000 cycles. A KA-810 wide-band two-channel acoustic unit, with a range of 40 to 20,000 cycles has been developed. It has 4 ICGD-18 loudspeakers (Fig. 8 with resonance frequencies of 40, 50, 60, and 80 cycles, placed in the cabinet (Fig. 8)

Card 2/3

SOW/107-56-11-25/4C

The Acoustic Systems of Modern Radio Broadcasting and Television Receivers

and 4 VGD-1 loudspeakers, two of which are placed in a frontal plane and two in the side panels. The unit's frequency characteristics are given in Figure 9. Basic information about all the loudspeakers used in the acoustic systems is contained in Table 2.

There are 6 diagrams, 2 tables, 2 graphs, and 1 drawing.

Card 3/3

SHIFRAI, David Khaymovich; VOLGOV, V.A., nauchn. red.; VLASOVA,
L.V., red.

[Loudspeakers; their design and manufacture] Gromkogovcriteli;
konstruirovaniye i proizvodstvo. Moskva, Energiia, 1965.
247 p. (MIRA 18:10)

FIALKOVSKAYA, Tat'yana Andreyevna; SHIFMAN, Gerasim Moiseyevich; DENISOVA,
I.S., redaktor; KIRSANOV, N.A., tekhnicheskij redaktor

[Improving working conditions for paint sprayers in the machine
building industry] Ozdorovlenie uslovij truda pri pul'verizatsion-
noi okraske v mashinostroenii. [Moskva] Izd-vo VTsSPS Profizdat,
1954. 133 p.
(Spray painting) (Machinery industry)

AID P - 3659

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 5/19

Authors : Shifman, G. M., Kand. Med. Sci., Bromley, M. F., Kand. Tech. Sci.

Title : Working conditions during surface drying of molds

Periodical : Gig. i. san., 11, 20-27, N 1955

Abstract : Describes investigations performed by the All-Union Scientific Research Institute of Industrial Safety in 4 shops of a cast iron foundry, and the equipment used for surface drying of molds. The Institute recommends an installation which does not permit the liberation of carbon monoxide in the air of the shops. Tables, diagrs.

Institution : All-Union Scientific Research Institute of Industrial Safety of the VTSSPS (All-Union Central Council of Trade-Unions), Moscow

Submitted : Ag 26, 1954

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BROMLEY, M.F., kandidat tekhnicheskikh nauk; GLAGOLOVA, T.A., kandidat tekhnicheskikh nauk; SHIFMAN, G.M., kandidat meditsinskikh nauk; UVAROVA, A.F., tekhnicheskiy redaktor

[Measures for improving working conditions in foundries] Meropriyatiia po uluchsheniiu uslovii truda v chugunoliteinykh tsakhakh.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957. 98 p.
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IGNATOK, A.I., inzh.; SHIFMAN, G.M., kand. med. nauk, red.; KORETSKIY, V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., red.; KOGAN, G.M., starshiy inzh., red.; NARBEKOVA, N.N., starshiy inzh., red.; SIDOROCHKIN, S.S., starshiy inzh., red.; SOROKINA, G.Ye., tekhn. red.

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1. Profsoyuz rabochikh mashinostroyeniya SSSR. 2. Glavnnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza rabochikh mashinostroyeniya (for Ignatok, Mikhaylova). 3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman). 4. Moskovskiy zavod "Stankolit" (for Koretskiy). 5. Uchenyy sekretar' NIITLITMASha (for Shulenin). 6. Gosudarstvennyy institut po proyektirovaniyu stankostroitel'nykh, instrumental'nykh, abrazivnykh zavodov i mazavodov kuznechno-pressovogo mashinostroyeniya (for Narbekova). 7. Moskovskiy avtozavod im. Likhacheva (for Kogan). 8. Gosudarstvennyy komitet Soveta Ministrov SSSR po sudostroyeniyu (for Sidorochkin).

(FOUNDING—SAFETY MEASURES) (FACTORY SANITATION)

IGNATOK, A.I., inzh.; SHIFMAN, G.M., kand. med. nauk, red.; KORETSKIY, V.A., starshiy inzh., red.; SHULENIN, N.A., red.; MIKHAYLOVA, V.L., tekhninspektor, red.; KOGAN, G.M., starshiy inzh., red.; NARBEKOVA, N.N., starshiy inzh., red.; SIDOROCHKIN, S.S., starshiy inzh., red.; SMIRNOVA, G.V., tekhn. red.

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1. Profsoyuz rabochikh mashinostroyeniya SSSR.
2. Glavnnyy tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza mashinostroyeniya SSSR (for Ignatok).
3. Moskovskiy institut okhrany truda Vsesoyuznogo tsentral'nogo soveta profsoyuzov (for Shifman).
4. Moskovskiy zavod "Stankolit" (for Koretskiy).
5. Uchenyy sekretar' Nauchno-issledovatel'skogo instituta liteynogo mashinostroyeniya i liteynoy tekhnologii (for Shulenin).
6. Tekhnicheskiy inspektor TSentral'nogo komiteta profsoyuza mshinostroyeniya SSSR (for Mikhaylova).
7. Moskovskiy avtozavod im. Likhacheva (for Kogan).

(Continued on next card)

IGNATOK, A.I.--- (continued) Card 2.

8. Gosudarstvennyy institut po proyektirovaniyu stankostroitel'-nykh, instrumental'nykh, abrazivnykh zavodov i zavodov kuz-nechno-pressovogo mashinostroyeniya (for Narbekova). 10. Gosudarstvennyy komitet Soveta Ministrov SSSR po sudostroyeniyu (for Sidorochkin).

(Founding—Safety measures)